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October 31, 2017

VIA CERTIFIED MAIL # 9414 8108 9876 5000 5407 13

Director  
Air and Waste Management Division  
11201 Renner Boulevard  
Lenexa, Kansas 66219

RE: Initial Annual Report (August 2, 2016 to August 1, 2017)  
NSPS Subpart OOOOa  
Tapstone Energy, LLC  
Kansas

Dear Sir/Madam:

Tapstone Energy, LLC (Tapstone) owns and operates well sites in Kansas subject to requirements under 40 CFR §60.5360a-5499a, NSPS Subpart OOOOa. In accordance with 40 CFR §60.5420a(b), Tapstone is submitting this annual report for each well site affected facility. The report covers the period from August 2, 2016 to August 1, 2017. A list of each affected well site is shown below:

Site Name	API Number	Lat/Long	NSPS Subpart OOOOa Source Category		
			Well Completion	Well Site Fugitive Emission Survey	Pneumatic Pump
Carothers 17-33-7 1H Pad	15077221650000	37.159415094, -98.109405597		X	
Diel Farms 15-34-9 1H Pad	15077221550000	37.080400997, -98.276542657		X	
Diel Farms 15-34-9 2H Pad	15077221610000	37.080442056, -98.2864339		X	
Kennedy 14-34-9 1H Pad	15077221620000	37.080401207, -98.266807939		X	
Leann 21-34-9 2H Pad	15077221580000	37.065945956, -98.309214262		X	
Leech 16-34-9 1H Pad	15077221640000	37.080471181, -98.294797667		X	
Mark 25-34-9 2H Pad	15077221590000	37.051184581, -98.253017194		X	
Salsberry 17-34-7 1H and Salsberry 20-34-7 1H Pad	15077221520000 15077221480000	37.080189656, -98.106043689		X	
Sylvia 23-34-9 1H Pad	15077221600000	37.065766132, -98.25432516		X	

100 EAST MAIN STREET | OKLAHOMA CITY | OKLAHOMA | 73104

PH: 405.702.1600 | TAPSTONEENERGY.COM



**40 CFR §60.5420a(b)(7) – Collection of Fugitive Emission Components**

Due to the regulatory uncertainty caused by multiple actions of the U.S. Environmental Protection Agency (“EPA”) and U.S. Court of Appeals for the D.C. Circuit (“Court”), Tapstone experienced multiple deviations during the reporting period on fugitive emission monitoring. The actions taken by EPA and the Court are listed as follows:

- On May 26, 2017, EPA published a 90-day stay of the fugitive emission requirements under NSPS Subpart OOOOa.
- On June 16, 2017, EPA published a proposal to delay the fugitive leak requirements under NSPS Subpart OOOOa for two years while the agency performed a regulatory review.
- On July 3, 2017, the Court vacated the 90-day stay that EPA published on May 26, 2017.
- On July 13, the Court granted EPA a 14-day delay on vacating the 90-day stay.

Considering the regulatory actions and court decisions, Tapstone maintains that the fugitive emission requirements under NSPS Subpart OOOOa were not in effect between May 26, 2017 and July 3, 2017, or between July 13, 2017 and July 27, 2017. Tapstone is unclear how these time-gaps impact the regulatory requirements associated with leak surveys performed during that time and asks that the EPA exercise enforcement discretion. The deviations reported were not deliberate or intentional, but a direct result of regulatory uncertainty. Once the rule appeared to be back in effect, Tapstone began to take immediate and reasonable action to correct any leaks discovered. As a result of these actions, Tapstone will not realize a significant economic or competitive advantage.


A summary of fugitive emission deviations is included as Attachment 1.

Records required by 40 CFR §60.5420a(b)(7) for each survey are included as Attachment 2.

Please contact Jaron Hill at (405) 702-1646 or by email at [jhill@tapstoneenergy.com](mailto:jhill@tapstoneenergy.com) with any questions regarding this report.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Sincerely,

  
Rick Hughes  
Vice President - Operations

Attachments:

1. Summary of Fugitive Emission Deviations
2. Fugitive Emission Reports



Tapstone Energy, LLC  
NSPS Subpart OOOOa Annual Report, Kansas  
October 31, 2017

CC: Director  
Bureau of Air  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, KS 66612-1366  
**VIA CERTIFIED MAIL # 9414 8108 9876 5000 5409 35**

Tapstone Energy, LLC  
NSPS Subpart OOOOa Annual Report, Kansas  
October 31, 2017

## **Attachment 1**

### **Summary of Fugitive Emission Deviations**

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Tapstone Energy  
NSPS Subpart OOOOa Annual Report

Summary of Fugitive Emission Deviations

Kansas

Reporting Period: August 2, 2016 to August 1, 2017

Facility	Tag No.	Deviation Type	Due Date	Corrective Action Date
Diel Farms 15-34-9 1H Pad	832	Late Repair	6/29/2017	Pending
	Enardo	Late Repair	6/29/2017	10/31/2017
	817	Late Verification	7/9/2017	7/13/2017
Diel Farms 15-34-9 2H Pad	819	Late Repair	6/29/2017	10/2/2017
	820	Late Repair	6/29/2017	10/26/2017
	821	Late Repair	6/29/2017	10/26/2017
	822	Late Verification	7/9/2017	7/14/2017
Kennedy 14-34-9 1H Pad	834	Late Repair	6/29/2017	8/9/2017
	834	Late Verification	9/8/2017	10/2/2017
	Enardo	Late Repair	6/29/2017	10/31/2017
Leann 21-34-9 2H Pad	829	Late Repair	6/29/2017	9/7/2017
	827	Late Verification	7/9/2017	7/14/2017
	830	Late Verification	7/9/2017	7/14/2017
	831	Late Verification	7/9/2017	7/14/2017
Leech 16-34-9 1H Pad	823	Late Repair	6/29/2017	10/2/2017
	824	Late Repair	6/29/2017	Pending
	825	Late Repair	6/29/2017	10/26/2017
	826	Late Verification	7/9/2017	7/14/2017
Mark 25-34-9 2H Pad	836	Late Repair	6/29/2017	10/22/2017
	835	Late Repair	6/29/2017	10/26/2017
Salsberry 17-34-7 1H and Salsberry 20-34-7 1H Pad	804	Late Repair	6/29/2017	10/2/2017
	839	Late Repair	6/29/2017	9/12/2017
	840	Late Repair	6/29/2017	9/12/2017
	841	Late Repair	6/29/2017	9/12/2017
Sylvia 23-34-9 1H Pad	837	Late Repair	6/29/2017	10/26/2017
	Enardo	Late Repair	6/29/2017	10/31/2017
	812	Late Verification	7/9/2017	7/14/2017








Tapstone Energy, LLC  
NSPS Subpart OOOOa Annual Report, Kansas  
October 31, 2017

## **Attachment 2**

### **Fugitive Emission Reports**




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Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Carothers 17-33-7 1H 37.15937N, 98.10944W	na
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	8:00am-9:10am
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	    
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	N/A
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	81°F, cloudy, wind 2mph SW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	no
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(I)(1) through (12) of this section.	Tag801 - Murphy level controller, compressor scrubber Tag802 - regulator vent, knockout Tag803 - thief hatch, water tank 2 Tag(enardo) - enardo, water tank battery Tag(enardo oil tank) - enardo, oil tank Battery
(1) Location.	37.15937N, 98.10944W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	5
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	3 - Tag802, Tag(enardo), Tag(enardo oil tank)
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	 
(9) Repair methods applied in each attempt to repair the fugitive emissions components.	tbd
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	
(11) The date of successful repair of the fugitive emissions component.	30-May-17
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

[illegible][illegible]








Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Diel Farms 15-34-9 1H 37.08036N, 98.28643W	na
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	12:40pm-1:05pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	  
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	78°F, wind 8mph W
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag832 - Murphy level controller, compressor scrubber Tag(enardo) - enardo, tank battery Tag817 - Thief Hatch, Water tank
(1) Location.	37.08036N, 98.28643W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	3 - Murphy Level Controller, Thief Hatch, Enardo Valve
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	3
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

## Die! Farms 15-34-9 1H Pad

[illegible]











Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Diel Farms 15-34-9 2H 37.08036N, 98.28643W	na  Harper County, KS; Well #130494 & #130471
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	1:10pm-2:00pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	    
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	81°F, wind 2mph SW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag818 - Kimray regulator vent, compressor suction Tag819 - weir rod cap gasket, heater treater Tag820 - Murphy level controller, compressor scrubber Tag821 - Murphy level controller, compressor scrubber Tag822 - Murphy level controller, compressor scrubber
(1) Location.	37.08036N, 98.28643W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	5 -Kimray regulator, weir rod gasket, Murphy Level Controller's
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	5
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations







## Diel Farms 15-34-9 2H Pad

[illegible]








Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Kennedy 14-34-9-1H <u>37.08036N, 98.26682W</u>	na Harper County, KS; Well #130497
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	12:00pm-12:35pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	     
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	0
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	76°F, wind 3mph NW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(I)(1) through (12) of this section.	Tag814 - 1"x2" bushing, compressor discharge Tag833 - Murphy level controller, compressor scrubber Tag834 - Murphy level controller, compressor scrubber Tag815 - Compression elbow, knockout regulator Tag816 - .25" "T", knockout regulator Tag(enardo) - enardo, tank battery
(1) Location.	37.08036N, 98.26682W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	6
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	4 - Tag814, Tag833, Tag834, Tag(enardo)
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	 
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	
(11) The date of successful repair of the fugitive emissions component.	30-May-17
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations



[illegible][illegible]

Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104	na
LEANN 21-34-9 2H 37.05124N, 98.25319W	Harper County, KS
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	2:40pm - 3:35pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS can be clearly read in the digital image.	 Tag827.jpg  Tag828.jpg  Tag(enardo).jpg  Tag829.jpg  Tag830.jpg  Tag831.jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	84°F, wind 1mph W
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(I)(1) through (12) of this section.	Tag827 - Murphy level controler, compressor scrubber Tag828 - Kimray regulator vent, compressor suction Tag(enardo) - enardo, tank battery Tag829 - Thief Hatch, water tank Tag830 - Thief Hatch, oil tank 2 Tag831 - Thief Hatch, oil tank 1
(1) Location.	37.05124N, 98.25319W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	6 - Murphy Level Controller, Kimray regulator, Enardo Valve, 3 Thief Hatches
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	6
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

[illegible]












Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Leech 16-34-9 1H 37.08041N, 98.29480W	na
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	2:05pm-2:30pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS can be clearly read in the digital image.	    
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	81°F, wind 6mph E
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag823 - Kimray regulator vent, compressor suction Tag824 - Murphy level controller, compressor scrubber Tag825 - Murphy level controller, compressor scrubber Tag826 - Murphy level controller, compressor scrubber Tag(enardo) - enardo, tank battery
(1) Location.	37.08041N, 98.29480W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	5 - Murphy Level Controller's, Kimrayregulator, enardo valve
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	5
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

[illegible]







Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Mark 24-34-9 2H 37.05124N, 98.25319W	na
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	11:25am-11:50am
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	 Tag836.jpg  Tag835.jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	76°F, wind 6mph SW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag836 - Kimray regulator vent, compressor suction Tag835 - Murphy level controller, compressor scrubber
(1) Location.	37.05124N, 98.25319W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	2 - regulator, level controller
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	2
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(9) Repair methods applied in each attempt to repair the fugitive emissions components.	tbd
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

[illegible]

Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104 Salsberry 17-34-7 1H 37.08017N, 98.10610W	na
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	9:30am-10:00am
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	   
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	70°F, wind 3mph NE
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag804 - Kimray regulator vent, compressor Tag839 - Murphy level controller, compressor Tag840 - Murphy level controller, compressor Tag806 - compression fittings, controller
(1) Location.	37.08017N, 98.10610W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	4-Kimray regulator, Murphy Level Controller, Murphy Level Controller, compression fittings
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	4
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104	na
Salsberry 20-34-7 1H 37.08017N, 98.10610W	Harper County, KS; Well #130463
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	10:00am - 10:30am
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS can be clearly read in the digital image.	 Tag805.jpg  Tag841.jpg  Tag842.jpg  Tag807.jpg  Tag808.jpg  Tag(enardo).jpg  Tag809.jpg  Tag810.jpg  Tag811.jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	70°F, wind 3mph NE
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag805 - Kimray regulator vent, compressor suction Tag841 - Murphy level controller, compressor Tag842 - Murphy level controller, compressor Tag807 - compression fittings, controller Tag(enardo) - enardo, oil tank battery Tag808 - thief hatch, oil tank 2 Tag809 - thief hatch, water tank 2 Tag810 - thief hatch, water tank 1 Tag811 - thief hatch, oil tank 1
(1) Location.	37.08017N, 98.10610W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	9- Murphy Level Controllers, Thief Hatch's, enardo, Kimray regulator compression fittings
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	7 - Tag805, Tag841, Tag842, Tag807, Tag(enardo), Tag810, Tag811
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	 Tag808repair.jpg  Tag809repair.jpg
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	30-May-17
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations



Requirement	Comment/Answer
Tapstone Energy 100 East Main Street Oklahoma City, OK 73104	na
Sylvia 23-34-9 1H 37.06572N, 98.25437W	Harper County, KS; Well #130487
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	10:50am-11:25pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS can be clearly read in the digital image.	 Tag812.jpg  Tag837.jpg  Tag838.jpg  Tag813.jpg  Tag(enardo).jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	74°F, wind 3mph SW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1) through (12) of this section.	Tag812 - Kimray regulator vent, compressor suction Tag837 - Murphy level controller, compressor scrubber Tag838 - Murphy level controller, compressor scrubber Tag813 - 1" union, verticle seperator Tag(enardo) - enardo, tank battery
(1) Location.	37.06572N, 98.25437W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	5 - regulator, level controllers, 1" union, enardo
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	4
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	 Tag813repair.jpg
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	30-May-17
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

[illegible]

